

FIG. 1

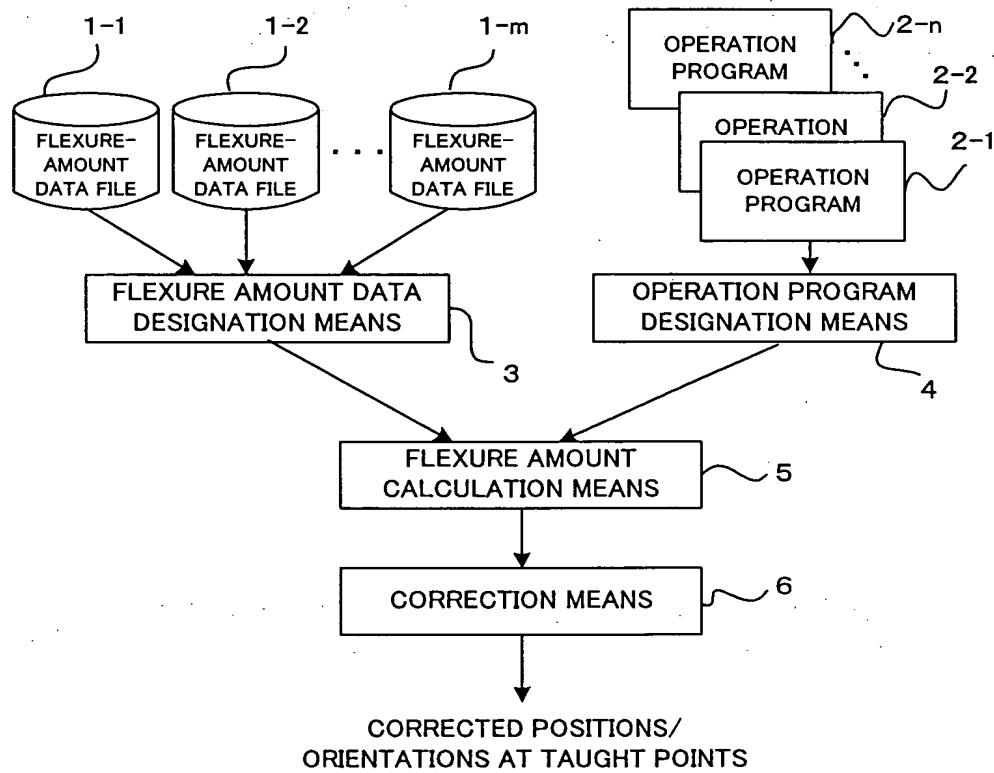


FIG. 2

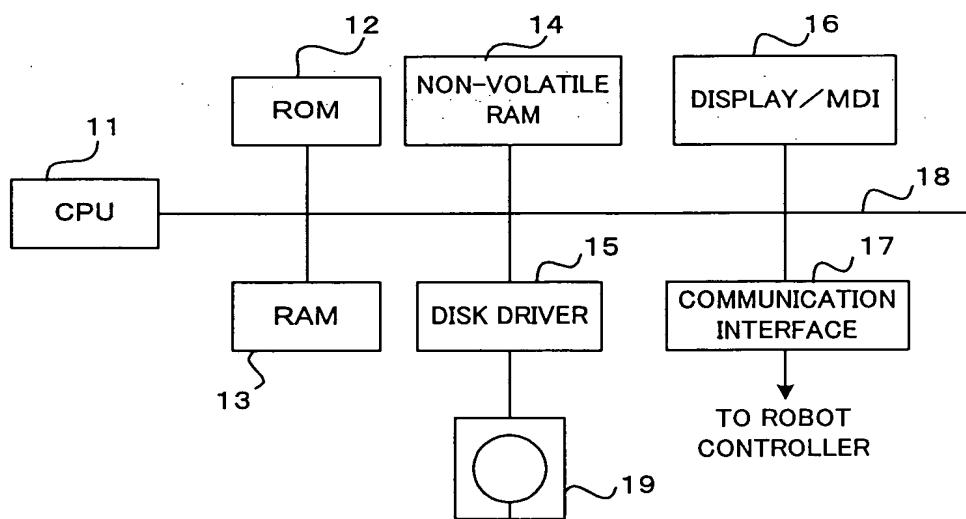


FIG. 3

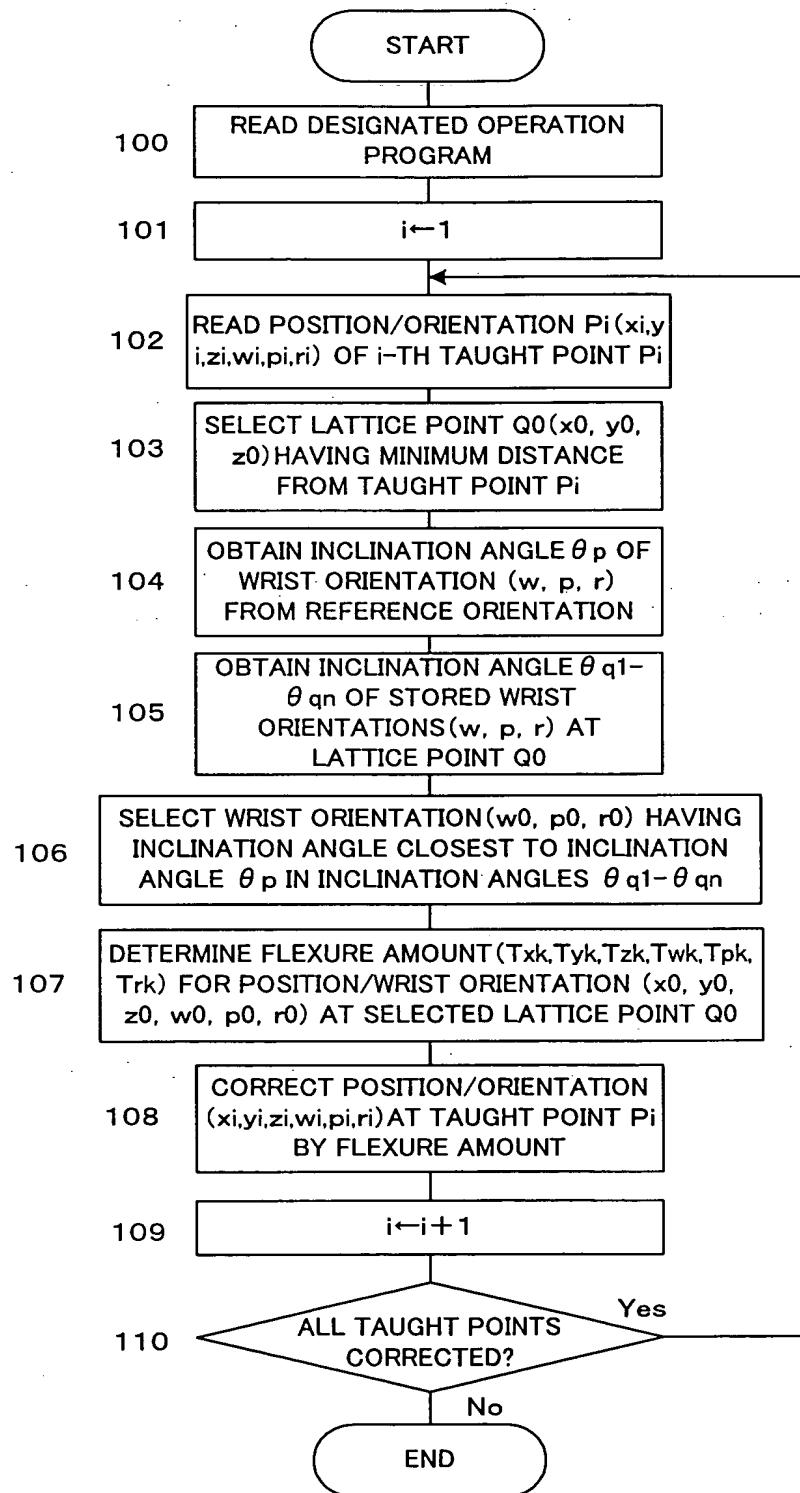


FIG. 4

1: TOOL WEIGHT W1, POSITION (X1, Y1, Z1) OF CENTER OF GRAVITY

| POSITION     | ORIENTATION                       | FLEXURE AMOUNT  |
|--------------|-----------------------------------|---|
| (x1, y1, z1) | (w1, p1, r1)<br>(w2, p2, r2)<br>⋮ | (Tx11,Ty11,Tz11,Tw11,Tp11,Tr11)<br>(Tx12,Ty12,Tz12,Tw12,Tp12,Tr12)<br>⋮ |
| (x2, y2, z2) | (w1, p1, r1)<br>(w2, p2, r2)<br>⋮ | (Tx21,Ty21,Tz21,Tw21,Tp21,Tr21)<br>(Tx22,Ty22,Tz22,Tw22,Tp22,Tr22)<br>⋮ |
| ⋮            | ⋮                                 | ⋮   |
| (xn, yn, zn) | (w1, p1, r1)<br>(w2, p2, r2)<br>⋮ | (Txn1,Tyn1,Tzn1,Twn1,Tpn1,Trn1)<br>(Txn2,Tyn2,Tzn2,Twn2,Tpn2,Trn2)<br>⋮ |

2: TOOL WEIGHT W1, POSITION (X2, Y2, Z2) OF CENTER OF GRAVITY

| POSITION | ORIENTATION | FLEXURE AMOUNT |
|----------|-------------|----------------|
| ⋮        | ⋮           | ⋮              |
| ⋮        | ⋮           | ⋮              |

k: TOOL WEIGHT W2, POSITION (X1, Y1, Z1) OF CENTER OF GRAVITY

| POSITION | ORIENTATION | FLEXURE AMOUNT |
|----------|-------------|----------------|
| ⋮        | ⋮           | ⋮              |
| ⋮        | ⋮           | ⋮              |

m: TOOL WEIGHT Wn, POSITION (X1, Y1, Z1) OF CENTER OF GRAVITY

| POSITION | ORIENTATION | FLEXURE AMOUNT |
|----------|-------------|----------------|
| ⋮        | ⋮           | ⋮              |
| ⋮        | ⋮           | ⋮              |